



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-503



Joint Direct Attack Munition (JDAM)

As of FY 2015 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Common Acronyms and Abbreviations

Acq O&M - Acquisition-Related Operations and Maintenance
APB - Acquisition Program Baseline
APPN - Appropriation
APUC - Average Procurement Unit Cost
BA - Budget Authority/Budget Activity
BY - Base Year
DAMIR - Defense Acquisition Management Information Retrieval
Dev Est - Development Estimate
DoD - Department of Defense
DSN - Defense Switched Network
Econ - Economic
Eng - Engineering
Est - Estimating
FMS - Foreign Military Sales
FY - Fiscal Year
IOC - Initial Operational Capability
\$K - Thousands of Dollars
LRIP - Low Rate Initial Production
\$M - Millions of Dollars
MILCON - Military Construction
N/A - Not Applicable
O&S - Operating and Support
Oth - Other
PAUC - Program Acquisition Unit Cost
PB - President's Budget
PE - Program Element
Proc - Procurement
Prod Est - Production Estimate
QR - Quantity Related
Qty - Quantity
RDT&E - Research, Development, Test, and Evaluation
SAR - Selected Acquisition Report
Sch - Schedule
Spt - Support
TBD - To Be Determined
TY - Then Year
UCR - Unit Cost Reporting

Program Information

Program Name

Joint Direct Attack Munition (JDAM)

DoD Component

Air Force

Joint Participants

Navy

Responsible Office

Responsible Office

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Date Assigned June 1, 2012

References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated March 23, 2001

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated October 7, 2002

Mission and Description

The Joint Direct Attack Munition (JDAM) program is a joint Air Force/Navy program with the Air Force as the lead acquisition service. Designated Acquisition Category IC, this program upgrades the existing inventory of general purpose bombs (MK-84, BLU-109, MK-82 and MK-83) by integrating the bombs with a field installed guidance kit using a Global Positioning System Aided Inertial Navigation System. JDAM provides an accurate, adverse weather capability. JDAM is integrated with the B-52H, B-2A, B-1B, F-16C/D, F/A-18A+/C/D/E/F, F-15E, A-10C, AV-8B and F-22A aircraft.

Executive Summary

Deliveries of JDAM Lot 15 production of 8,139 tailkits were completed in March 2013, one month ahead of schedule. Deliveries of JDAM Lot 16 production of 9,861 tailkits are ahead of schedule with final delivery scheduled for September 2014. JDAM Lot 17 production of 5,708 tailkits was awarded in December 2012 with deliveries scheduled to start April 2014.

The Air Force received funding to acquire 1,500 Laser JDAM sensors with an Adjustable Proximity Sensor capability. The U.S. Navy put this requirement on contract in February 2013 with deliveries scheduled to commence in November 2014.

There are no significant software-related issues with this program at this time.

Threshold Breaches

APB Breaches

| | | |
|---------------------|-------------|-------------------------------------|
| Schedule | | <input type="checkbox"/> |
| Performance | | <input type="checkbox"/> |
| Cost | RDT&E | <input type="checkbox"/> |
| | Procurement | <input checked="" type="checkbox"/> |
| | MILCON | <input type="checkbox"/> |
| | Acq O&M | <input type="checkbox"/> |
| O&S Cost | | <input type="checkbox"/> |
| Unit Cost | PAUC | <input type="checkbox"/> |
| | APUC | <input type="checkbox"/> |

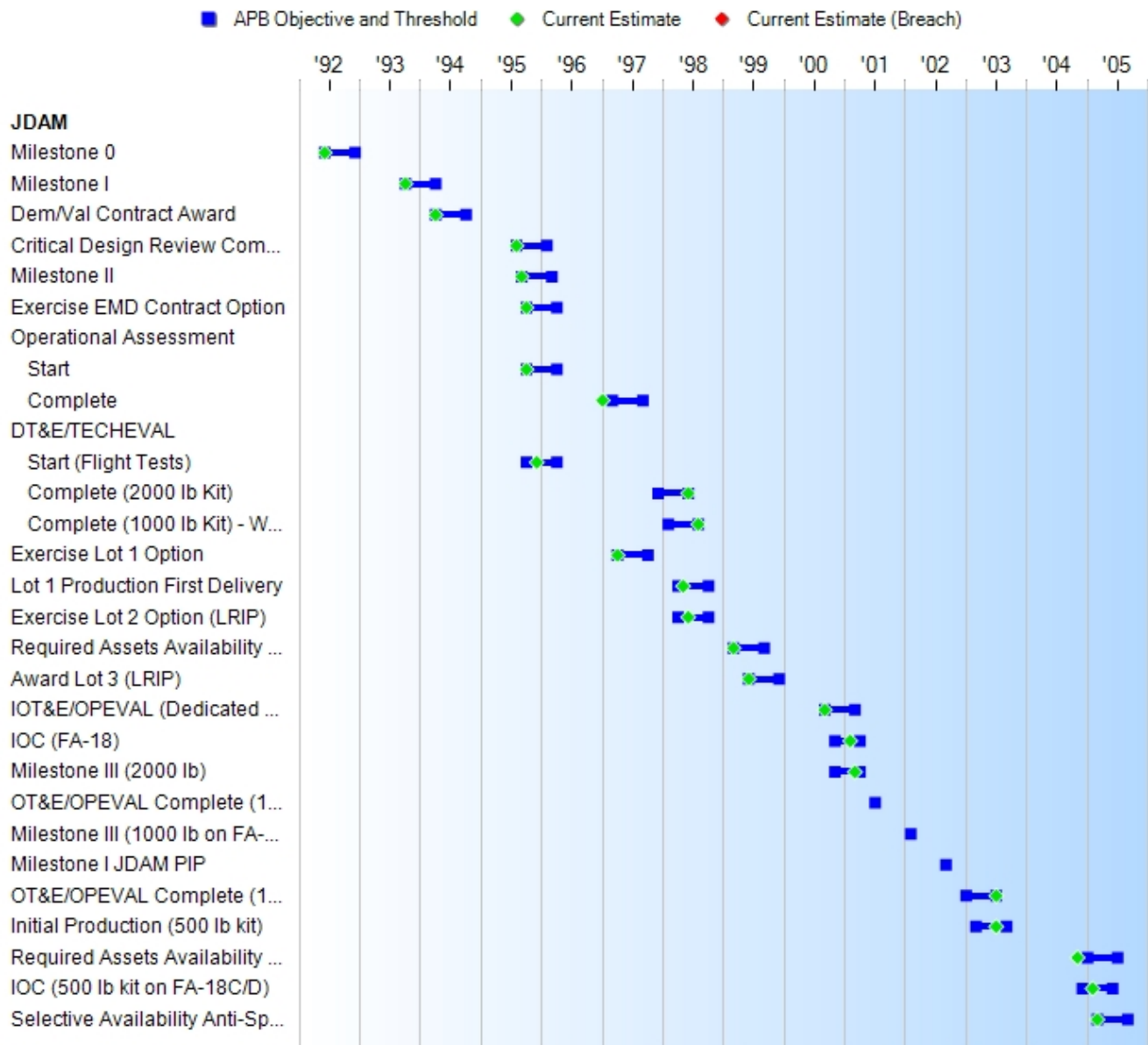
Explanation of Breach

FY 2018 added 2,689 tailkits and \$109.0M to the funding profile causing the total procurement funding to exceed the APB threshold by \$34.2M. A Program Deviation Report has been approved by the Air Force, however, due to the nature of the breach (total procurement cost), the Air Force decided that an APB update was not required.

Nunn-McCurdy Breaches

| | | |
|------------------------------|------|------|
| Current UCR Baseline | | |
| | PAUC | None |
| | APUC | None |
| Original UCR Baseline | | |
| | PAUC | None |
| | APUC | None |

Schedule



| Milestones | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Current Estimate |
|---|----------------------------------|---|----------|-----------------------------|
| Milestone 0 | JUN 1992 | JUN 1992 | DEC 1992 | JUN 1992 |
| Milestone I | OCT 1993 | OCT 1993 | APR 1994 | OCT 1993 |
| Dem/Val Contract Award | APR 1994 | APR 1994 | OCT 1994 | APR 1994 |
| Critical Design Review Complete | AUG 1995 | AUG 1995 | FEB 1996 | AUG 1995 |
| Milestone II | SEP 1995 | SEP 1995 | MAR 1996 | SEP 1995 |
| Exercise EMD Contract Option | OCT 1995 | OCT 1995 | APR 1996 | OCT 1995 |
| Operational Assessment | | | | |
| Start | OCT 1995 | OCT 1995 | APR 1996 | OCT 1995 |
| Complete | MAR 1997 | MAR 1997 | SEP 1997 | JAN 1997 |
| DT&E/TECHEVAL | | | | |
| Start (Flight Tests) | OCT 1995 | OCT 1995 | APR 1996 | DEC 1995 |
| Complete (2000 lb Kit) | DEC 1997 | DEC 1997 | JUN 1998 | JUN 1998 |
| Complete (1000 lb Kit) - Weapon Only | FEB 1998 | FEB 1998 | AUG 1998 | AUG 1998 |
| Exercise Lot 1 Option | APR 1997 | APR 1997 | OCT 1997 | APR 1997 |
| Lot 1 Production First Delivery | APR 1998 | APR 1998 | OCT 1998 | MAY 1998 |
| Exercise Lot 2 Option (LRIP) | APR 1998 | APR 1998 | OCT 1998 | JUN 1998 |
| Required Assets Availability (AF) | MAR 1999 | MAR 1999 | SEP 1999 | MAR 1999 |
| Award Lot 3 (LRIP) | JUN 1999 | JUN 1999 | DEC 1999 | JUN 1999 |
| IOT&E/OPEVAL (Dedicated 2000 lb Kit) Complete | SEP 2000 | SEP 2000 | MAR 2001 | SEP 2000 |
| IOC (FA-18) | NOV 2000 | NOV 2000 | APR 2001 | FEB 2001 |
| Milestone III (2000 lb) | NOV 2000 | NOV 2000 | APR 2001 | MAR 2001 |
| OT&E/OPEVAL Complete (1000 lb Kit/FA-18C/D) | JUL 2001 | N/A | N/A | N/A |
| Milestone III (1000 lb on FA-18C/D) | FEB 2002 | N/A | N/A | N/A |
| Milestone I JDAM PIP | SEP 2002 | N/A | N/A | N/A |
| OT&E/OPEVAL Complete (1000 lb Kit/FA-18C/D) | N/A | JAN 2003 | JUL 2003 | JUL 2003 |
| Initial Production (500 lb kit) | N/A | MAR 2003 | SEP 2003 | JUL 2003 |
| Required Assets Availability (RAA) (500 lb on B-2) | N/A | JAN 2005 | JUL 2005 | NOV 2004 |
| IOC (500 lb kit on FA-18C/D) | N/A | DEC 2004 | JUN 2005 | FEB 2005 |
| Selective Availability Anti-Spoofing Module (SAASM)/GPS Anti-Jam Production Award | N/A | MAR 2005 | SEP 2005 | MAR 2005 |

Change Explanations

None

Acronyms and Abbreviations

AF - Air Force
Dem/Val - Demonstration/Validation
DT&E - Development Test and Evaluation
EMD - Engineering, Manufacturing and Development
GPS - Global Positioning System
IOT&E - Initial Operational Test and Evaluation
lb - Pound
OPEVAL - Operational Evaluation
OT&E - Operational Test and Evaluation
PIP - Product Improvement Program
TECHEVAL - Technical Evaluation

Performance

| Characteristics | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Demonstrated Performance | Current Estimate |
|--|--|--|--|---|--|
| Weather Capability | Adverse | Adverse | Adverse | Adverse | Adverse |
| Accuracy (CEP) (Meters) | | | | | |
| GPS Available, Impact Angles > 60 Deg | 13 Horizontal Targets | 5 Horizontal targets | 13 | 4.3 | 5 Horizontal Targets |
| Inflight Re-targeting Capability (captive carry) | Yes | Yes | Yes | Yes | Yes |
| Carrier Operability | Yes | Yes | Yes | Yes | Yes |
| Warhead Compatibility | MK-82/BLU- 111, MK-83, Improved 1000-lbs, BLU- 113/116/117 | MK-82/BLU- 111, MK- 83, Improved 1000-lbs, BLU- 113/116/117 | BLU-109, MK-84, MK- 83 (F-22) | BLU-109, MK-84, MK- 83 (F-22), MK-82 | BLU-109, MK-84, MK- 83 (F-22), MK-82 |
| Aircraft Compatibility | | | | | |
| Bomber | B-1B, B-2 | B-1B, B-2 | B-52H | Yes | B-52H, B- 1B, B-2 |
| Fighter Attack | F-16C/D, F/A-18E/F, F-117A, F- 15E, F- 14A/B/D, P- 3, S-3, JSF, A-10 | F-16C/D, F/A-18E/F, F-117A, F- 15E, F- 14A/B/D, P- 3, S-3, JSF, A-10 | F/A-18C/D, F-22 (MK- 83), AV-8B & F/A- 18C/D (MK- 83) | Yes | F-16C/D, F- 117, F/A- 18A+/C/D/E/ F, F-15E, AV-8B, A- 10, F-22A |
| Mission Reliability | .90 | .90 | .90 | .957 | .90 |
| JDAM PIP Accuracy (CEP) (Meters) | 3 | N/A | N/A | N/A | N/A |
| JDAM PIP Weather Capability | Adverse | N/A | N/A | N/A | N/A |
| JDAM PIP Warhead Compatibility | MK-82, MK- 83 | N/A | N/A | N/A | N/A |
| Interoperability | N/A | Satisfy 100% of critical IERs | Satisfy 100% of critical IERs | Satisfied | Satisfied |

Requirements Source

Joint Operational Requirements Document (JORD) dated March 10, 2001

Change Explanations

None

Acronyms and Abbreviations

CEP - Circular Error Probable

Deg - Degree

GPS - Global Positioning System

IER - Information Exchange Requirement

JSF - Joint Strike Fighter

lbs - Pound

PIP - Product Improvement Program

Track to Budget

RDT&E

| Appn | | BA | PE | |
|-----------|---------|----|------------------|--------|
| Navy | 1319 | 05 | 0604618N | |
| | Project | | Name | |
| | 2137 | | JDAM | (Sunk) |
| Air Force | 3600 | 05 | 0604618F | |
| | Project | | Name | |
| | 3890 | | JDAM | (Sunk) |
| Air Force | 3600 | 04 | 0604618F | |
| | Project | | Name | |
| | 674138 | | JDAM Development | |
| Air Force | 3600 | 07 | 0604618F | |
| | Project | | Name | |
| | 674138 | | JDAM Development | |

Procurement

| Appn | | BA | PE | |
|-----------|-----------|----|----------|--------|
| Navy | 1508 | 01 | 0206138M | |
| | Line Item | | Name | |
| | 0148 | | JDAM | (Sunk) |
| Navy | 1508 | 01 | 0204162N | |
| | Line Item | | Name | |
| | 0148 | | JDAM | (Sunk) |
| Air Force | 3011 | 01 | 0207583F | |
| | Line Item | | Name | |
| | 353620 | | JDAM | |

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

| Appropriation | BY1995 \$M | | | BY1995 \$M | TY \$M | | |
|----------------|--------------------------|--|---------------------|----------------------------|--------------------------|--|---------------------|
| | SAR Baseline Prod Est | Current APB Production Objective/Threshold | Current Estimate | | SAR Baseline Prod Est | Current APB Production Objective | Current Estimate |
| RDT&E | 490.3 | 575.1 | 661.4 | 572.8 | 517.3 | 604.3 | 602.3 |
| Procurement | 1810.0 | 4307.5 | 4738.3 | 5291.3 ¹ | 2089.4 | 5026.5 | 6627.5 |
| Flyaway | -- | -- | -- | 4896.9 | -- | -- | 6136.0 |
| Recurring | -- | -- | -- | 4896.9 | -- | -- | 6136.0 |
| Non Recurring | -- | -- | -- | 0.0 | -- | -- | 0.0 |
| Support | -- | -- | -- | 394.4 | -- | -- | 491.5 |
| Other Support | -- | -- | -- | 394.4 | -- | -- | 491.5 |
| Initial Spares | -- | -- | -- | 0.0 | -- | -- | 0.0 |
| MILCON | 0.0 | 0.0 | -- | 0.0 | 0.0 | 0.0 | 0.0 |
| Acq O&M | 0.0 | 0.0 | -- | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 2300.3 | 4882.6 | N/A | 5864.1 | 2606.7 | 5630.8 | 7229.8 |

¹ APB Breach

| Quantity | SAR Baseline Prod Est | Current APB Production | Current Estimate |
|-------------|--------------------------|---------------------------|------------------|
| RDT&E | 630 | 778 | 804 |
| Procurement | 88435 | 221091 | 271844 |
| Total | 89065 | 221869 | 272648 |

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2015 President's Budget / December 2013 SAR (TY\$ M)

| Appropriation | Prior | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | To Complete | Total |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|
| RDT&E | 597.3 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 602.3 |
| Procurement | 5148.1 | 250.5 | 101.4 | 295.4 | 308.9 | 160.1 | 363.1 | 0.0 | 6627.5 |
| MILCON | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acq O&M | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PB 2015 Total | 5745.4 | 253.0 | 103.9 | 295.4 | 308.9 | 160.1 | 363.1 | 0.0 | 7229.8 |
| PB 2014 Total | 5756.6 | 191.0 | 105.0 | 135.1 | 145.1 | 109.0 | 0.0 | 0.0 | 6441.8 |
| Delta | -11.2 | 62.0 | -1.1 | 160.3 | 163.8 | 51.1 | 363.1 | 0.0 | 788.0 |

| Quantity | Undistributed | Prior | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | To Complete | Total |
|---------------|---------------|-------|--------|--------|--------|--------|--------|--------|-------------|--------|
| Development | 804 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 804 |
| Production | 0221862 | 7059 | 2852 | 11058 | 11224 | 5064 | 12725 | | 0 | 271844 |
| PB 2015 Total | 804221862 | 7059 | 2852 | 11058 | 11224 | 5064 | 12725 | | 0 | 272648 |
| PB 2014 Total | 804221638 | 6965 | 2104 | 3775 | 3915 | 2689 | 0 | | 0 | 241890 |
| Delta | 0 | 224 | 94 | 748 | 7283 | 7309 | 2375 | 12725 | 0 | 30758 |

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|-----------------|------------|--|---|---------------------------------------|----------------------------|----------------------------|----------------------------|
| 1993 | -- | -- | -- | -- | -- | -- | 23.2 |
| 1994 | -- | -- | -- | -- | -- | -- | 7.8 |
| 1995 | -- | -- | -- | -- | -- | -- | 23.0 |
| 1996 | -- | -- | -- | -- | -- | -- | 25.4 |
| 1997 | -- | -- | -- | -- | -- | -- | 22.1 |
| 1998 | -- | -- | -- | -- | -- | -- | 11.6 |
| 1999 | -- | -- | -- | -- | -- | -- | 6.1 |
| 2000 | -- | -- | -- | -- | -- | -- | 7.2 |
| 2001 | -- | -- | -- | -- | -- | -- | 23.0 |
| 2002 | -- | -- | -- | -- | -- | -- | 27.3 |
| 2003 | -- | -- | -- | -- | -- | -- | 15.5 |
| 2004 | -- | -- | -- | -- | -- | -- | 1.3 |
| 2005 | -- | -- | -- | -- | -- | -- | 0.5 |
| 2006 | -- | -- | -- | -- | -- | -- | 0.3 |
| Subtotal | 114 | -- | -- | -- | -- | -- | 194.3 |

Annual Funding BY\$**1319 | RDT&E | Research, Development, Test, and Evaluation, Navy**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 1995 \$M | Non End Item Recurring Flyaway BY 1995 \$M | Non Recurring Flyaway BY 1995 \$M | Total Flyaway BY 1995 \$M | Total Support BY 1995 \$M | Total Program BY 1995 \$M |
|--------------------|-----------------|---|---|--|--|--|--|
| 1993 | -- | -- | -- | -- | -- | -- | 23.8 |
| 1994 | -- | -- | -- | -- | -- | -- | 7.8 |
| 1995 | -- | -- | -- | -- | -- | -- | 22.7 |
| 1996 | -- | -- | -- | -- | -- | -- | 24.7 |
| 1997 | -- | -- | -- | -- | -- | -- | 21.2 |
| 1998 | -- | -- | -- | -- | -- | -- | 11.0 |
| 1999 | -- | -- | -- | -- | -- | -- | 5.7 |
| 2000 | -- | -- | -- | -- | -- | -- | 6.7 |
| 2001 | -- | -- | -- | -- | -- | -- | 21.0 |
| 2002 | -- | -- | -- | -- | -- | -- | 24.7 |
| 2003 | -- | -- | -- | -- | -- | -- | 13.8 |
| 2004 | -- | -- | -- | -- | -- | -- | 1.1 |
| 2005 | -- | -- | -- | -- | -- | -- | 0.4 |
| 2006 | -- | -- | -- | -- | -- | -- | 0.2 |
| Subtotal | 114 | -- | -- | -- | -- | -- | 184.8 |

Annual Funding TY\$

3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|-----------------|------------|--|---|---------------------------------------|----------------------------|----------------------------|----------------------------|
| 1993 | -- | -- | -- | -- | -- | -- | 21.5 |
| 1994 | -- | -- | -- | -- | -- | -- | 61.9 |
| 1995 | -- | -- | -- | -- | -- | -- | 62.9 |
| 1996 | -- | -- | -- | -- | -- | -- | 76.4 |
| 1997 | -- | -- | -- | -- | -- | -- | 32.7 |
| 1998 | -- | -- | -- | -- | -- | -- | 21.1 |
| 1999 | -- | -- | -- | -- | -- | -- | 28.7 |
| 2000 | -- | -- | -- | -- | -- | -- | 11.3 |
| 2001 | -- | -- | -- | -- | -- | -- | 9.7 |
| 2002 | -- | -- | -- | -- | -- | -- | 16.5 |
| 2003 | -- | -- | -- | -- | -- | -- | 17.0 |
| 2004 | -- | -- | -- | -- | -- | -- | 36.0 |
| 2005 | -- | -- | -- | -- | -- | -- | -- |
| 2006 | -- | -- | -- | -- | -- | -- | -- |
| 2007 | -- | -- | -- | -- | -- | -- | 7.3 |
| 2008 | -- | -- | -- | -- | -- | -- | -- |
| 2009 | -- | -- | -- | -- | -- | -- | -- |
| 2010 | -- | -- | -- | -- | -- | -- | -- |
| 2011 | -- | -- | -- | -- | -- | -- | -- |
| 2012 | -- | -- | -- | -- | -- | -- | -- |
| 2013 | -- | -- | -- | -- | -- | -- | -- |
| 2014 | -- | -- | -- | -- | -- | -- | 2.5 |
| 2015 | -- | -- | -- | -- | -- | -- | 2.5 |
| Subtotal | 690 | -- | -- | -- | -- | -- | 408.0 |

Annual Funding BY\$**3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 1995 \$M | Non End Item Recurring Flyaway BY 1995 \$M | Non Recurring Flyaway BY 1995 \$M | Total Flyaway BY 1995 \$M | Total Support BY 1995 \$M | Total Program BY 1995 \$M |
|--------------------|-----------------|---|---|--|--|--|--|
| 1993 | -- | -- | -- | -- | -- | -- | 21.9 |
| 1994 | -- | -- | -- | -- | -- | -- | 62.1 |
| 1995 | -- | -- | -- | -- | -- | -- | 62.0 |
| 1996 | -- | -- | -- | -- | -- | -- | 73.9 |
| 1997 | -- | -- | -- | -- | -- | -- | 31.2 |
| 1998 | -- | -- | -- | -- | -- | -- | 20.0 |
| 1999 | -- | -- | -- | -- | -- | -- | 26.9 |
| 2000 | -- | -- | -- | -- | -- | -- | 10.5 |
| 2001 | -- | -- | -- | -- | -- | -- | 8.8 |
| 2002 | -- | -- | -- | -- | -- | -- | 14.9 |
| 2003 | -- | -- | -- | -- | -- | -- | 15.1 |
| 2004 | -- | -- | -- | -- | -- | -- | 31.3 |
| 2005 | -- | -- | -- | -- | -- | -- | -- |
| 2006 | -- | -- | -- | -- | -- | -- | -- |
| 2007 | -- | -- | -- | -- | -- | -- | 5.8 |
| 2008 | -- | -- | -- | -- | -- | -- | -- |
| 2009 | -- | -- | -- | -- | -- | -- | -- |
| 2010 | -- | -- | -- | -- | -- | -- | -- |
| 2011 | -- | -- | -- | -- | -- | -- | -- |
| 2012 | -- | -- | -- | -- | -- | -- | -- |
| 2013 | -- | -- | -- | -- | -- | -- | -- |
| 2014 | -- | -- | -- | -- | -- | -- | 1.8 |
| 2015 | -- | -- | -- | -- | -- | -- | 1.8 |
| Subtotal | 690 | -- | -- | -- | -- | -- | 388.0 |

PE 0604618F funded an additional \$13.7M in FY 2007 for Laser JDAM and \$50M in FY 2010 for Very Low Collateral Damage Weapon.

Annual Funding TY\$**1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps**

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|--------------------|-----------------|--|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1998 | 547 | 10.0 | -- | -- | 10.0 | 10.9 | 20.9 |
| 1999 | 745 | 14.6 | -- | -- | 14.6 | 20.6 | 35.2 |
| 2000 | 916 | 19.3 | -- | -- | 19.3 | 15.7 | 35.0 |
| 2001 | 2325 | 50.2 | -- | -- | 50.2 | 15.4 | 65.6 |
| 2002 | 14551 | 292.4 | -- | -- | 292.4 | 10.1 | 302.5 |
| 2003 | 12280 | 242.4 | -- | -- | 242.4 | 8.5 | 250.9 |
| 2004 | 12422 | 243.7 | -- | -- | 243.7 | 8.2 | 251.9 |
| 2005 | 6876 | 142.5 | -- | -- | 142.5 | 8.6 | 151.1 |
| 2006 | 3288 | 72.5 | -- | -- | 72.5 | 9.0 | 81.5 |
| 2007 | 3324 | 73.9 | -- | -- | 73.9 | 12.7 | 86.6 |
| 2008 | 1422 | 35.5 | -- | -- | 35.5 | 7.1 | 42.6 |
| 2009 | 560 | 13.3 | -- | -- | 13.3 | 5.2 | 18.5 |
| 2010 | -- | -- | -- | -- | -- | 2.0 | 2.0 |
| Subtotal | 59256 | 1210.3 | -- | -- | 1210.3 | 134.0 | 1344.3 |

Annual Funding BY\$**1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 1995 \$M | Non End Item Recurring Flyaway BY 1995 \$M | Non Recurring Flyaway BY 1995 \$M | Total Flyaway BY 1995 \$M | Total Support BY 1995 \$M | Total Program BY 1995 \$M |
|--------------------|-----------------|---|---|--|--|--|--|
| 1998 | 547 | 9.4 | -- | -- | 9.4 | 10.2 | 19.6 |
| 1999 | 745 | 13.5 | -- | -- | 13.5 | 19.1 | 32.6 |
| 2000 | 916 | 17.6 | -- | -- | 17.6 | 14.4 | 32.0 |
| 2001 | 2325 | 45.3 | -- | -- | 45.3 | 13.9 | 59.2 |
| 2002 | 14551 | 261.2 | -- | -- | 261.2 | 9.0 | 270.2 |
| 2003 | 12280 | 211.7 | -- | -- | 211.7 | 7.4 | 219.1 |
| 2004 | 12422 | 207.3 | -- | -- | 207.3 | 7.0 | 214.3 |
| 2005 | 6876 | 117.8 | -- | -- | 117.8 | 7.1 | 124.9 |
| 2006 | 3288 | 58.5 | -- | -- | 58.5 | 7.2 | 65.7 |
| 2007 | 3324 | 58.2 | -- | -- | 58.2 | 10.1 | 68.3 |
| 2008 | 1422 | 27.6 | -- | -- | 27.6 | 5.5 | 33.1 |
| 2009 | 560 | 10.2 | -- | -- | 10.2 | 4.0 | 14.2 |
| 2010 | -- | -- | -- | -- | -- | 1.5 | 1.5 |
| Subtotal | 59256 | 1038.3 | -- | -- | 1038.3 | 116.4 | 1154.7 |

Annual Funding TY\$

3011 | Procurement | Procurement of Ammunition, Air Force

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|-----------------|---------------|-----------------------------------|---------------------------------------|------------------------------|----------------------|----------------------|----------------------|
| 1997 | 937 | 16.6 | -- | -- | 16.6 | 6.4 | 23.0 |
| 1998 | 1828 | 33.5 | -- | -- | 33.5 | 5.7 | 39.2 |
| 1999 | 3778 | 72.4 | -- | -- | 72.4 | 7.1 | 79.5 |
| 2000 | 8725 | 180.1 | -- | -- | 180.1 | 9.1 | 189.2 |
| 2001 | 8904 | 189.9 | -- | -- | 189.9 | 13.6 | 203.5 |
| 2002 | 14392 | 285.9 | -- | -- | 285.9 | 14.5 | 300.4 |
| 2003 | 23420 | 458.5 | -- | -- | 458.5 | 18.6 | 477.1 |
| 2004 | 20476 | 404.2 | -- | -- | 404.2 | 20.3 | 424.5 |
| 2005 | 22880 | 491.8 | -- | -- | 491.8 | 22.6 | 514.4 |
| 2006 | 8205 | 200.8 | -- | -- | 200.8 | 24.4 | 225.2 |
| 2007 | 7261 | 180.7 | -- | -- | 180.7 | 13.4 | 194.1 |
| 2008 | 4319 | 102.1 | -- | -- | 102.1 | 22.0 | 124.1 |
| 2009 | 6340 | 149.1 | -- | -- | 149.1 | 16.9 | 166.0 |
| 2010 | 7488 | 177.1 | -- | -- | 177.1 | 21.3 | 198.4 |
| 2011 | 14551 | 357.5 | -- | -- | 357.5 | 15.9 | 373.4 |
| 2012 | 4600 | 111.5 | -- | -- | 111.5 | 15.7 | 127.2 |
| 2013 | 4502 | 133.7 | -- | -- | 133.7 | 10.9 | 144.6 |
| 2014 | 7059 | 239.0 | -- | -- | 239.0 | 11.5 | 250.5 |
| 2015 | 2852 | 84.3 | -- | -- | 84.3 | 17.1 | 101.4 |
| 2016 | 11058 | 277.5 | -- | -- | 277.5 | 17.9 | 295.4 |
| 2017 | 11224 | 291.3 | -- | -- | 291.3 | 17.6 | 308.9 |
| 2018 | 5064 | 143.4 | -- | -- | 143.4 | 16.7 | 160.1 |
| 2019 | 12725 | 344.8 | -- | -- | 344.8 | 18.3 | 363.1 |
| Subtotal | 212588 | 4925.7 | -- | -- | 4925.7 | 357.5 | 5283.2 |

Annual Funding BY\$**3011 | Procurement | Procurement of Ammunition, Air Force**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 1995 \$M | Non End Item Recurring Flyaway BY 1995 \$M | Non Recurring Flyaway BY 1995 \$M | Total Flyaway BY 1995 \$M | Total Support BY 1995 \$M | Total Program BY 1995 \$M |
|--------------------|-----------------|---|---|--|--|--|--|
| 1997 | 937 | 15.7 | -- | -- | 15.7 | 6.1 | 21.8 |
| 1998 | 1828 | 31.4 | -- | -- | 31.4 | 5.3 | 36.7 |
| 1999 | 3778 | 67.0 | -- | -- | 67.0 | 6.6 | 73.6 |
| 2000 | 8725 | 164.8 | -- | -- | 164.8 | 8.4 | 173.2 |
| 2001 | 8904 | 171.9 | -- | -- | 171.9 | 12.3 | 184.2 |
| 2002 | 14392 | 254.6 | -- | -- | 254.6 | 12.9 | 267.5 |
| 2003 | 23420 | 403.5 | -- | -- | 403.5 | 16.4 | 419.9 |
| 2004 | 20476 | 348.1 | -- | -- | 348.1 | 17.5 | 365.6 |
| 2005 | 22880 | 411.9 | -- | -- | 411.9 | 18.9 | 430.8 |
| 2006 | 8205 | 163.5 | -- | -- | 163.5 | 19.8 | 183.3 |
| 2007 | 7261 | 143.5 | -- | -- | 143.5 | 10.6 | 154.1 |
| 2008 | 4319 | 79.6 | -- | -- | 79.6 | 17.2 | 96.8 |
| 2009 | 6340 | 114.6 | -- | -- | 114.6 | 13.0 | 127.6 |
| 2010 | 7488 | 134.2 | -- | -- | 134.2 | 16.2 | 150.4 |
| 2011 | 14551 | 265.4 | -- | -- | 265.4 | 11.8 | 277.2 |
| 2012 | 4600 | 81.3 | -- | -- | 81.3 | 11.5 | 92.8 |
| 2013 | 4502 | 94.9 | -- | -- | 94.9 | 7.8 | 102.7 |
| 2014 | 7059 | 166.7 | -- | -- | 166.7 | 8.0 | 174.7 |
| 2015 | 2852 | 57.7 | -- | -- | 57.7 | 11.7 | 69.4 |
| 2016 | 11058 | 186.2 | -- | -- | 186.2 | 12.0 | 198.2 |
| 2017 | 11224 | 191.6 | -- | -- | 191.6 | 11.6 | 203.2 |
| 2018 | 5064 | 92.5 | -- | -- | 92.5 | 10.8 | 103.3 |
| 2019 | 12725 | 218.0 | -- | -- | 218.0 | 11.6 | 229.6 |
| Subtotal | 212588 | 3858.6 | -- | -- | 3858.6 | 278.0 | 4136.6 |

Air Force does not provide inflation tables for appropriation 3011, Procurement of Ammunition, Air Force. JDAM uses inflation tables for appropriation 3020, Missile Procurement, Air Force.

Low Rate Initial Production

| | Initial LRIP Decision | Current Total LRIP |
|-------------------|-----------------------|--------------------|
| Approval Date | 9/20/1995 | 1/21/2000 |
| Approved Quantity | 425 | 15998 |
| Reference | Milestone II ADM | LRIP 4 ADM |
| Start Year | 1997 | 1997 |
| End Year | 1998 | 2000 |

The LRIP quantities approved in the Acquisition Decision Memorandum (ADM) at Milestone II, September 20, 1995, were 425 units for Lot 1. Subsequent FY 1997 budget cycle decisions approved a buy-to-budget approach for determining annual quantities and Lot 1 became 937 units. With the lower than expected unit costs and a higher demand for JDAM Guidance Kits, a second, third and fourth LRIP were added making LRIP a total quantity of 15,998. The additional LRIP quantities, required to replenish JDAM inventories depleted during Operation Allied Force, caused the Air Force to exceed the 10% LRIP limit. However, all four Congressional Defense committees concurred with the Air Force's plan before the Lot 4 contract was awarded on February 24, 2000.

Foreign Military Sales

| Country | Date of Sale | Quantity | Total Cost \$M | Memo |
|--------------|--------------|----------|----------------|------------------------------------|
| Oman | 7/1/2013 | | 0.9 | Fuzes |
| Belgium | 5/15/2013 | | 0.1 | Fuzes |
| Norway | 3/8/2013 | | 2.8 | Fuzes |
| Israel | 3/7/2013 | 3113 | 88.8 | JDAM Kits and Support |
| Korea | 3/7/2013 | 210 | 7.8 | JDAM Kits, Fuzes |
| Japan | 3/1/2013 | 68 | 4.2 | JDAM Kits |
| Poland | 1/31/2013 | | 1.1 | JDAM Manpower |
| Turkey | 12/19/2012 | 300 | 13.4 | JDAM Kits, Fuzes |
| Korea | 11/27/2012 | 140 | 5.1 | JDAM Kits, Fuzes |
| Israel | 11/21/2012 | 1500 | 40.8 | JDAM Kits |
| Finland | 7/15/2012 | | 0.2 | Repair and Return, Spares, Support |
| Korea | 5/1/2012 | 106 | 3.6 | JDAM Kits |
| Iraq | 4/19/2012 | 358 | 2.0 | Fuzes |
| Canada | 4/17/2012 | 0 | 0.2 | Fuzes |
| Saudi Arabia | 2/22/2012 | 0 | 61.4 | Engineering Support |
| Saudi Arabia | 2/22/2012 | | 5.4 | Repair and Return, Spares, Support |
| Saudi Arabia | 2/11/2012 | 600 | 154.5 | JDAM Kits, PLGS, Fuzes |
| Japan | 10/12/2011 | 16 | 0.7 | JDAM Kits |
| Japan | 10/12/2011 | 8 | 0.7 | JDAM Kits |
| Belgium | 9/8/2011 | 180 | 5.4 | JDAM Kits, Fuzes |
| Malaysia | 8/23/2011 | 0 | 1.8 | JDAM Spares, Test Assets |
| Canada | 8/11/2011 | 533 | 15.9 | JDAM Kits, Integration Support |
| Japan | 7/15/2011 | 0 | 2.7 | Fuzes |
| Chile | 6/10/2011 | 210 | 8.0 | JDAM Kits, Fuzes |
| Norway | 4/26/2011 | 254 | 9.5 | JDAM Kits |
| Denmark | 4/11/2011 | 210 | 8.9 | JDAM Kits |
| Belgium | 2/2/2011 | 30 | 0.8 | Spares |
| Brazil | 1/28/2011 | 0 | 0.3 | Fuzes |
| Morocco | 9/8/2010 | 10 | 6.0 | JDAM Kits |
| Japan | 2/9/2010 | 96 | 4.9 | JDAM Kits, Fuzes |
| Japan | 1/29/2010 | 31 | 1.7 | JDAM Kits, Fuzes |

| | | | | |
|----------------------|------------|------|------|---|
| Singapore | 1/27/2010 | 670 | 35.5 | JDAM Kits |
| Israel | 1/22/2010 | 150 | 2.1 | Precision Laser Guidance Set |
| Israel | 1/12/2010 | 150 | 3.5 | JDAM Kits |
| Netherlands | 12/4/2009 | 0 | 2.8 | Fuzes |
| South Korea | 11/30/2009 | 0 | 3.8 | JDAM Integration on F-16 |
| Malaysia | 9/28/2009 | 50 | 5.8 | JDAM Kits |
| Norway | 6/10/2009 | 30 | 5.2 | JDAM Kits, Support |
| Kuwait | 3/31/2009 | 51 | 5.9 | JDAM Kits, Support |
| United Arab Emirates | 3/24/2009 | 0 | 1.1 | Repair and Return, Spares, Support |
| Japan | 3/12/2009 | 120 | 9.2 | JDAM Kits |
| Finland | 2/25/2009 | 96 | 7.0 | JDAM Kits |
| Singapore | 2/11/2009 | 35 | 4.1 | JDAM Kits |
| Japan | 2/3/2009 | 36 | 3.1 | JDAM Kits, Fuzes |
| Oman | 2/2/2009 | 0 | 0.8 | Repair and Return, Spares, Support |
| Israel | 1/12/2009 | 500 | 14.9 | JDAM Kits |
| Israel | 1/12/2009 | 2950 | 71.6 | JDAM Kits |
| South Korea | 12/29/2008 | | 0.4 | Fuzes |
| South Korea | 12/16/2008 | 4 | 0.5 | JDAM Kits |
| Germany | 10/28/2008 | | 0.2 | Fuzes |
| South Korea | 9/3/2008 | | 0.2 | Fuzes |
| Israel | 7/21/2008 | | 0.6 | Engineering Support |
| Saudi Arabia | 7/2/2008 | 900 | 44.2 | JDAM Kits, Support |
| South Korea | 3/11/2008 | | 2.2 | Fuzes |
| Japan | 3/7/2008 | 36 | 2.1 | JDAM Kits, Fuzes |
| United Arab Emirates | 2/21/2008 | 300 | 70.6 | JDAM Kits |
| South Korea | 2/19/2008 | | 4.3 | Fuzes, Global Positioning System (GPS) Security |
| South Korea | 12/28/2007 | | 0.4 | Fuzes |
| South Korea | 12/28/2007 | | 0.4 | Fuzes |
| Australia | 12/11/2007 | | 2.6 | Engineering Support |
| Greece | 11/20/2007 | 100 | 21.9 | JDAM Kits, Integration Support |
| Netherlands | 10/24/2007 | | 2.8 | Fuzes |
| Israel | 10/2/2007 | 1000 | 28.0 | JDAM Kits |
| Israel | 9/26/2007 | 650 | 17.3 | JDAM Kits |
| Israel | 7/13/2007 | 300 | 8.3 | JDAM Kits |
| Turkey | 5/29/2007 | | 0.4 | Fuzes |

| | | | | |
|----------------------|------------|------|------|-------------------------------------|
| Israel | 3/5/2007 | 500 | 12.9 | JDAM Kits |
| Japan | 12/18/2006 | 42 | 1.8 | JDAM Kits |
| Spain | 12/14/2006 | 40 | 2.5 | JDAM Kits |
| Pakistan | 9/30/2006 | 500 | 23.6 | JDAM Kits |
| Israel | 7/25/2006 | | 0.1 | Engineering Support |
| Japan | 3/27/2006 | 44 | 3.5 | JDAM Kits |
| Japan | 3/17/2006 | | 0.1 | Engineering Support |
| Turkey | 12/28/2005 | | 6.9 | Integration |
| Turkey | 12/28/2005 | 398 | 9.9 | JDAM Kits |
| Greece | 12/13/2005 | | 2.3 | Integration Support |
| Netherlands | 10/7/2005 | 56 | 1.7 | JDAM Kits |
| Turkey | 4/26/2005 | | 4.7 | Integration Support |
| Australia | 4/5/2005 | | 0.3 | Integration Support |
| Netherlands | 3/1/2005 | 360 | 8.7 | JDAM Kits, Support |
| Japan | 1/25/2005 | 27 | 8.5 | JDAM Kits, Integration, Test Assets |
| Belgium | 12/22/2004 | 300 | 7.9 | JDAM Kits |
| Israel | 8/16/2004 | | 17.6 | F-15 Integration |
| Israel | 7/14/2004 | 840 | 18.1 | JDAM Kits, Integration |
| Portugal | 4/15/2004 | 50 | 3.7 | JDAM Kits, Support |
| Netherlands | 2/23/2004 | 350 | 13.8 | JDAM Kits, Support |
| Oman | 2/15/2004 | 20 | 0.5 | JDAM Kits |
| Israel | 7/3/2003 | 1000 | 21.5 | JDAM Kits |
| Poland | 4/18/2003 | 272 | 10.6 | JDAM Kits, Integration, Test Assets |
| Denmark | 12/20/2002 | 274 | 11.0 | JDAM Kits, Support |
| United Arab Emirates | 8/20/2002 | 300 | 9.0 | JDAM Kits |
| South Korea | 6/12/2002 | 14 | 1.1 | JDAM Kits |
| Oman | 5/2/2002 | 80 | 3.2 | JDAM Kits |
| Belgium | 2/11/2002 | | 0.8 | Fuzes |
| Chile | 2/1/2002 | 12 | 3.0 | JDAM Kits, Integration, Test Assets |
| Australia | 11/28/2000 | | 6.8 | Fuzes |
| Australia | 11/28/2000 | | 3.2 | Fuzes |
| United Arab Emirates | 8/8/2000 | | 1.3 | Integration, Test Assets |
| Israel | 2/9/2000 | 700 | 31.5 | JDAM Kits, Integration |

Nuclear Costs

None

Unit Cost

Unit Cost Report

| | BY1995 \$M | BY1995 \$M | |
|-----------|---|------------------------------------|----------------|
| Unit Cost | Current UCR Baseline (OCT 2002 APB) | Current Estimate (DEC 2013 SAR) | BY % Change |

Program Acquisition Unit Cost (PAUC)

| | | | |
|-----------|--------|--------|------|
| Cost | 4882.6 | 5864.1 | |
| Quantity | 221869 | 272648 | |
| Unit Cost | 0.022 | 0.022 | 0.00 |

Average Procurement Unit Cost (APUC)

| | | | |
|-----------|--------|--------|------|
| Cost | 4307.5 | 5291.3 | |
| Quantity | 221091 | 271844 | |
| Unit Cost | 0.019 | 0.019 | 0.00 |

| | BY1995 \$M | BY1995 \$M | |
|-----------|--|------------------------------------|----------------|
| Unit Cost | Original UCR Baseline (SEP 1995 APB) | Current Estimate (DEC 2013 SAR) | BY % Change |

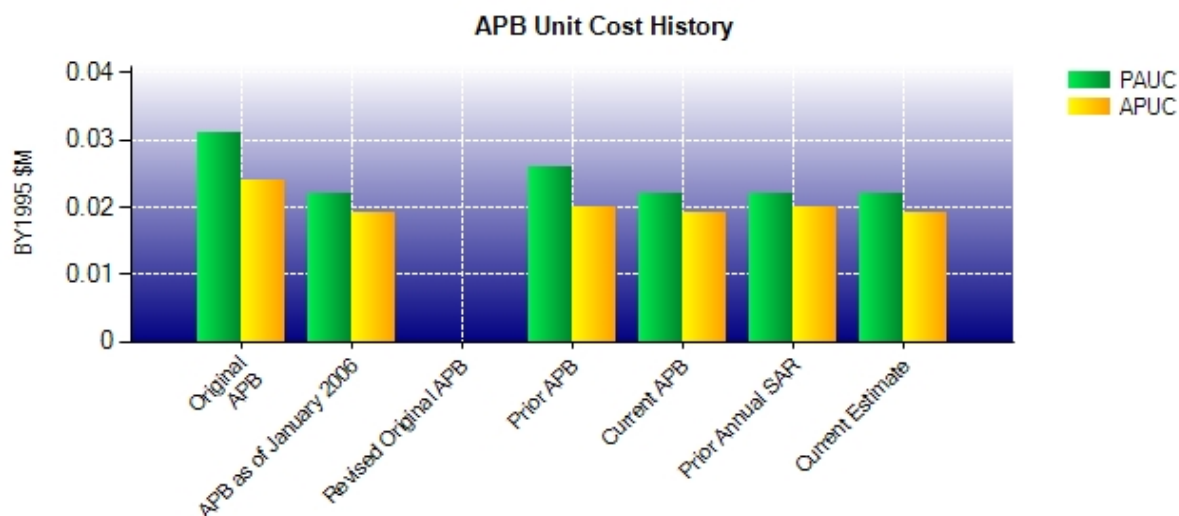
Program Acquisition Unit Cost (PAUC)

| | | | |
|-----------|--------|--------|--------|
| Cost | 2720.4 | 5864.1 | |
| Quantity | 88126 | 272648 | |
| Unit Cost | 0.031 | 0.022 | -29.03 |

Average Procurement Unit Cost (APUC)

| | | | |
|-----------|--------|--------|--------|
| Cost | 2090.6 | 5291.3 | |
| Quantity | 87496 | 271844 | |
| Unit Cost | 0.024 | 0.019 | -20.83 |

Unit Cost History



| | Date | BY1995 \$M | | TY \$M | |
|------------------------|----------|------------|-------|--------|-------|
| | | PAUC | APUC | PAUC | APUC |
| Original APB | SEP 1995 | 0.031 | 0.024 | 0.038 | 0.033 |
| APB as of January 2006 | OCT 2002 | 0.022 | 0.019 | 0.025 | 0.023 |
| Revised Original APB | N/A | N/A | N/A | N/A | N/A |
| Prior APB | MAR 2001 | 0.026 | 0.020 | 0.029 | 0.024 |
| Current APB | OCT 2002 | 0.022 | 0.019 | 0.025 | 0.023 |
| Prior Annual SAR | DEC 2012 | 0.022 | 0.020 | 0.027 | 0.024 |
| Current Estimate | DEC 2013 | 0.022 | 0.019 | 0.027 | 0.024 |

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)

| Initial PAUC Dev Est | Changes | | | | | | | | PAUC Prod Est |
|-------------------------|---------|--------|-------|-------|--------|-------|-------|--------|------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.038 | -0.002 | -0.005 | 0.002 | 0.001 | -0.005 | 0.000 | 0.000 | -0.009 | 0.029 |

Current SAR Baseline to Current Estimate (TY \$M)

| PAUC Prod Est | Changes | | | | | | | | PAUC Current Est |
|--------------------------|----------------|------------|------------|------------|------------|------------|------------|--------------|-----------------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.029 | 0.000 | -0.007 | 0.000 | 0.000 | 0.004 | 0.000 | 0.001 | -0.002 | 0.027 |

Initial SAR Baseline to Current SAR Baseline (TY \$M)

| Initial APUC Dev Est | Changes | | | | | | | | APUC Prod Est |
|---------------------------------|----------------|------------|------------|------------|------------|------------|------------|--------------|--------------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.033 | -0.002 | -0.003 | 0.002 | 0.000 | -0.006 | 0.000 | 0.000 | -0.009 | 0.024 |

Current SAR Baseline to Current Estimate (TY \$M)

| APUC Prod Est | Changes | | | | | | | | APUC Current Est |
|--------------------------|----------------|------------|------------|------------|------------|------------|------------|--------------|-----------------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.024 | 0.000 | -0.005 | 0.000 | 0.000 | 0.004 | 0.000 | 0.001 | 0.000 | 0.024 |

SAR Baseline History

| Item/Event | SAR Planning Estimate (PE) | SAR Development Estimate (DE) | SAR Production Estimate (PdE) | Current Estimate |
|-----------------------------|---|--|--|-----------------------------|
| Milestone I | OCT 1993 | OCT 1993 | OCT 1993 | OCT 1993 |
| Milestone II | OCT 1995 | SEP 1995 | SEP 1995 | SEP 1995 |
| Milestone III | JUL 1999 | NOV 2000 | NOV 2000 | MAR 2001 |
| IOC | SEP 1999 | SEP 1999 | NOV 2000 | FEB 2001 |
| Total Cost (TY \$M) | 681.5 | 3392.3 | 2606.7 | 7229.8 |
| Total Quantity | 378 | 88126 | 89065 | 272648 |
| Prog. Acq. Unit Cost (PAUC) | 1.803 | 0.038 | 0.029 | 0.027 |

IOC of February 2001 is specifically for the F/A-18C/D.

Cost Variance

| Summary Then Year \$M | | | | |
|------------------------------|------------------|-------------|---------------|--------------|
| | RDT&E | Proc | MILCON | Total |
| SAR Baseline (Prod Est) | 517.3 | 2089.4 | -- | 2606.7 |
| Previous Changes | | | | |
| Economic | +3.6 | +87.6 | -- | +91.2 |
| Quantity | -- | +2430.0 | -- | +2430.0 |
| Schedule | -- | -71.8 | -- | -71.8 |
| Engineering | +15.5 | -- | -- | +15.5 |
| Estimating | +65.9 | +980.1 | -- | +1046.0 |
| Other | -- | -- | -- | -- |
| Support | -- | +324.2 | -- | +324.2 |
| Subtotal | +85.0 | +3750.1 | -- | +3835.1 |
| Current Changes | | | | |
| Economic | -0.1 | -9.3 | -- | -9.4 |
| Quantity | -- | +712.6 | -- | +712.6 |
| Schedule | -- | -12.3 | -- | -12.3 |
| Engineering | -- | -- | -- | -- |
| Estimating | +0.1 | +88.7 | -- | +88.8 |
| Other | -- | -- | -- | -- |
| Support | -- | +8.3 | -- | +8.3 |
| Subtotal | -- | +788.0 | -- | +788.0 |
| Total Changes | +85.0 | +4538.1 | -- | +4623.1 |
| CE - Cost Variance | 602.3 | 6627.5 | -- | 7229.8 |
| CE - Cost & Funding | 602.3 | 6627.5 | -- | 7229.8 |

| Summary Base Year 1995 \$M | | | | |
|----------------------------|-------|---------|--------|---------|
| | RDT&E | Proc | MILCON | Total |
| SAR Baseline (Prod Est) | 490.3 | 1810.0 | -- | 2300.3 |
| Previous Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | -- | +1906.1 | -- | +1906.1 |
| Schedule | -- | -2.5 | -- | -2.5 |
| Engineering | +12.5 | -- | -- | +12.5 |
| Estimating | +69.9 | +805.8 | -- | +875.7 |
| Other | -- | -- | -- | -- |
| Support | -- | +253.1 | -- | +253.1 |
| Subtotal | +82.4 | +2962.5 | -- | +3044.9 |
| Current Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | -- | +460.1 | -- | +460.1 |
| Schedule | -- | -3.6 | -- | -3.6 |
| Engineering | -- | -- | -- | -- |
| Estimating | +0.1 | +57.6 | -- | +57.7 |
| Other | -- | -- | -- | -- |
| Support | -- | +4.7 | -- | +4.7 |
| Subtotal | +0.1 | +518.8 | -- | +518.9 |
| Total Changes | +82.5 | +3481.3 | -- | +3563.8 |
| CE - Cost Variance | 572.8 | 5291.3 | -- | 5864.1 |
| CE - Cost & Funding | 572.8 | 5291.3 | -- | 5864.1 |

Previous Estimate: December 2012

| RDT&E | \$M | |
|---|------------------|------------------|
| | Base Year | Then Year |
| Current Change Explanations | | |
| Revised escalation indices. (Economic) | N/A | -0.1 |
| Adjustment for current escalation. (Estimating) | +0.1 | +0.1 |
| RDT&E Subtotal | +0.1 | 0.0 |

| Procurement | \$M | |
|---|------------------|------------------|
| | Base Year | Then Year |
| Current Change Explanations | | |
| Revised escalation indices. (Economic) | N/A | -9.3 |
| Acceleration of procurement buy profile (Air Force). (Schedule) | 0.0 | -6.7 |
| Total Quantity variance resulting from an increase of 30758 JDAM Tailkits from 181830 to 212588 (Air Force). (Subtotal) | +602.5 | +933.1 |
| Quantity variance resulting from an increase of 30758 JDAM Tailkits from 181830 to 212588 (Air Force). (Quantity) | (+558.6) | (+865.1) |
| Allocation to Schedule resulting from Quantity change. (Schedule) (QR) | (-3.6) | (-5.6) |
| Allocation to Estimating resulting from Quantity change. (Estimating) (QR) | (+47.5) | (+73.6) |
| Additional Quantity variance resulting from an increase of 30758 JDAM Tailkits. (Quantity) | -98.5 | -152.5 |
| Adjustment for current and prior escalation. (Estimating) | +3.3 | +4.7 |
| Adjustment for current and prior escalation. (Estimating) | +6.8 | +10.4 |
| Adjustment for current and prior escalation. (Support) | +0.4 | +0.5 |
| Increase in Other Support is due to program extension into FY 2019 (Air Force). (Support) | +4.3 | +7.8 |
| Procurement Subtotal | +518.8 | +788.0 |

(QR) Quantity Related

Contracts

General Contract Memo

Ongoing switch to strategy requiring Certified Cost or Pricing data has put pressure on procurement schedule for Lots 18 through 22 (future contracts). Will mitigate risk with contract action in July 2014.

Appropriation: Procurement

| | |
|-----------------------|-----------------------|
| Contract Name | JDAM Lot 16 |
| Contractor | Boeing |
| Contractor Location | St. Louis, MO 63166 |
| Contract Number, Type | FA8681-12-C-0160, FFP |
| Award Date | November 30, 2011 |
| Definitization Date | November 30, 2011 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price at Completion (\$M) | |
|------------------------------|---------|------|------------------------------|---------|------|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 125.9 | N/A | 4977 | 238.8 | N/A | 9861 | 238.8 | 238.8 |

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the purchase of additional guidance kits and for production incentive.

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this FFP contract.

Appropriation: Procurement

| | |
|-----------------------|-----------------------|
| Contract Name | JDAM Lot 17 |
| Contractor | Boeing |
| Contractor Location | St. Louis, MO 63166 |
| Contract Number, Type | FA8681-13-C-0063, FFP |
| Award Date | December 21, 2012 |
| Definitization Date | December 21, 2012 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price at Completion (\$M) | |
|------------------------------|---------|------|------------------------------|---------|------|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 118.0 | N/A | 4501 | 142.0 | N/A | 5708 | 142.0 | 142.0 |

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the purchase of additional guidance kits.

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this FFP contract.

Deliveries and Expenditures

| Delivered to Date | Plan to Date | Actual to Date | Total Quantity | Percent Delivered |
|----------------------------------|--------------|----------------|----------------|-------------------|
| Development | 804 | 804 | 804 | 100.00% |
| Production | 226819 | 231105 | 271844 | 85.01% |
| Total Program Quantity Delivered | 227623 | 231909 | 272648 | 85.06% |

| Expended and Appropriated (TY \$M) | | | |
|------------------------------------|--------|----------------------------|--------|
| Total Acquisition Cost | 7229.8 | Years Appropriated | 22 |
| Expended to Date | 5491.8 | Percent Years Appropriated | 81.48% |
| Percent Expended | 75.96% | Appropriated to Date | 5998.4 |
| Total Funding Years | 27 | Percent Appropriated | 82.97% |

The above data is current as of 2/28/2014.

Expenditures include both U.S. Navy and Air Force.

Operating and Support Cost

JDAM

Assumptions and Ground Rules

Cost Estimate Reference:

Milestone III March 2001. An update to the O&S cost estimate is currently in work to coincide with the Lots 18-22 procurement contract. An updated O&S estimate will be presented in the 2014 SAR.

Sustainment Strategy:

The JDAM O&S cost estimate was based on the Joint Munitions Operations & Support Model which was tailored to reflect specific JDAM program attributes. This model estimated Air Force and Navy O&S costs for the JDAM tailkits only. Assumptions used in the O&S cost estimate are as follows: The total JDAM inventory used was 88,569 tailkits. The warranty assumed was a 20 year extended warranty to cover all tailkit repairs except for government induced failures. In the model, one half of a percent of the total JDAM failures were assumed to be induced out-of-warranty failures. The Milestone III estimate included calculations for 35 years. This was an increase of five years from the previous Milestone estimate. The model also included new assumptions to calculate unwarranted failures for 15 years after the warranty period ended.

Antecedent Information:

None

| Unitized O&S Costs BY1995 \$M | | | |
|--------------------------------|---|---------------------------|-------|
| Cost Element | JDAM Avg Annual Cost for Total Quantity | None (Antecedent) None | |
| Unit-Level Manpower | 0.400 | | 0.000 |
| Unit Operations | 1.900 | | 0.000 |
| Maintenance | 0.000 | | 0.000 |
| Sustaining Support | 2.600 | | 0.000 |
| Continuing System Improvements | 0.000 | | 0.000 |
| Indirect Support | 0.300 | | 0.000 |
| Other | 0.000 | | 0.000 |
| Total | 5.200 | | -- |

Unitized Cost Comments:

Total O&S: (6.634 x 35 years) = 232.2 (BY1995 \$M).

| Total O&S Cost \$M | | | | |
|--------------------|---|-----|------------------|-------------------|
| | Current Production APB Objective/Threshold | | Current Estimate | |
| | JDAM | | JDAM | None (Antecedent) |
| Base Year | N/A | N/A | 180.9 | N/A |
| Then Year | N/A | N/A | 319.0 | N/A |

Total O&S Costs Comments:

| O&S Cost Variance | | |
|--|-----------------------|--|
| Category | Base Year 1995 \$M | Change Explanation |
| Prior SAR Total O&S Estimate December | 232.2 | |
| Cost Estimating Methodology | 0.0 | |
| Cost Data Update | 0.0 | |
| Labor Rate | 0.0 | |
| Energy Rate | 0.0 | |
| Technical Input | 0.0 | |
| Programmatic/Planning Factors | 0.0 | |
| Other | -51.3 | Removal of Disposal Costs from the Total O&S estimate. |
| Total Changes | -51.3 | |
| Current Estimate | 180.9 | |

Disposal Costs:

Total Disposal Cost is \$51.3M BY1995.